

APRIL/MAY 2025

FEBC63/CEBC63 — IMMUNOLOGY
(Elective II)

Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Find the functions of primary and secondary lymphoid organs.
2. Outline the types of immunity.
3. What are called adjuvants?
4. Explain about antigenic determinants.
5. Define precipitins.
6. Expand the following :
 - (a) $\text{TNF } \alpha$
 - (b) $\text{IFN } \alpha$.
7. Define transplantation.



8. Explain the term allergen.
9. State the principle of RIA.
10. Name any two virus used in recombinant vaccines.

SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) Identify the factors governing innate immunity.

Or

- (b) Examine the structure of neutrophil.

12. (a) Organise the properties of antigen.

Or

- (b) Describe cross reactivity.

13. (a) Give an account on complement activation.

Or

- (b) Examine the functions of cytokines.

14. (a) Illustrate the mechanism of type IV hypersensitivity.

Or

- (b) Examine the mechanism of allograft rejection.

15. (a) Demonstrate the methodology involved in immunoelectrophoresis.

Or

- (b) Analyze how DNA vaccines are made.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Explain about cell mediated immune response.

17. Elaborate on the technique for monoclonal antibody production.

18. Explain the classical pathway of complement.

19. Discuss the mechanism of type II hypersensitivity.

20. Compile the principle and applications of ELISA.

